

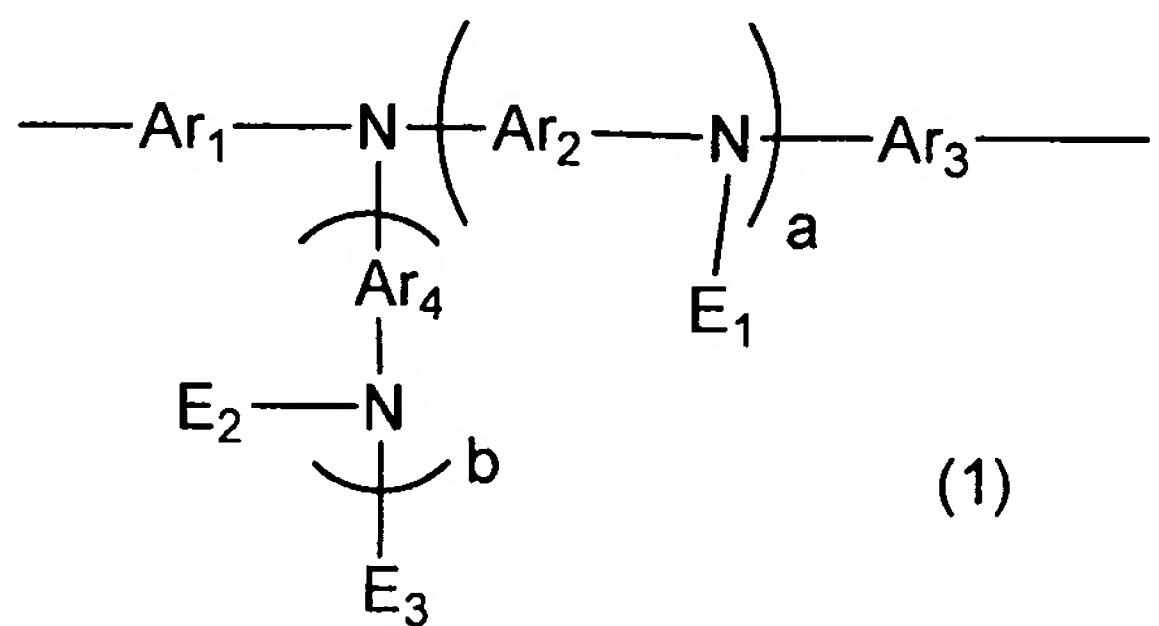
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Q95909
PRELIMINARY AMENDMENT

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An organic electroluminescence device wherein a light emitting layer exists between electrodes composed of an anode and a cathode, a layer (L) comprising a polymer compound exists between the light emitting layer and the anode and the polymer compound comprises a repeating unit of the following formula (1) :



wherein, Ar₁, Ar₂, Ar₃ and Ar₄ represent each independently an arylene group or divalent heterocyclic group, E₁, E₂ and E₃ represent each independently the following aryl group (A) or heterocyclic group (B), a and b represent each independently 0 or 1, and 0≤a+b≤1.

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Aaryl group (A): aryl group having three or more substituents selected from alkyl groups, alkoxy groups, alkylthio groups, aryl groups, aryloxy groups, arylthio groups, arylalkyl groups, arylalkoxy groups, arylalkylthio groups, arylalkenyl groups, arylalkynyl groups, amino group, substituted amino groups, silyl group, substituted silyl groups, silyloxy group, substituted silyloxy groups, monovalent heterocyclic groups and halogen atoms,

Heterocyclic group (B): monovalent heterocyclic group having one or more substituents selected from alkyl groups, alkoxy groups, alkylthio groups, aryl groups, aryloxy groups, arylthio groups, arylalkyl groups, arylalkoxy groups, arylalkylthio groups, arylalkenyl groups, arylalkynyl groups, amino group, substituted amino groups, silyl group, substituted silyl groups, silyloxy group, substituted silyloxy groups, monovalent heterocyclic groups and halogen atoms and in which the sum of the number of the substituents and the number of hetero atoms of the heterocycle is 3 or more.+-

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2. (original) The organic electroluminescence device according to Claim 1 wherein the layer (L) comprising a polymer compound is adjacent to the light emitting layer.

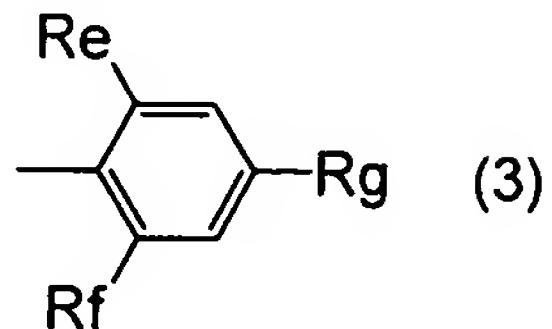
3. (original) The organic electroluminescence device according to Claim 1 or 2 wherein the layer (L) comprising a polymer compound is a hole injection and transportation layer.

4. (original) The organic electroluminescence device according to Claim 1 or 2 wherein the layer (L) comprising a polymer compound is adjacent to a hole injection and transportation layer.

5. (currently amended) The organic electroluminescence device according to ~~any of Claims 1 to 4~~ Claim 1 or 2 wherein the aryl group (A) is a phenyl group having three or more substituents, a naphthyl group having three or more substituents or an anthracenyl group having three or more substituents.

6. (currently amended) The organic electroluminescence device according to ~~any of Claims 1 to 5~~ Claim 1 or 2 wherein the aryl group (A) is a group of the following formula (3):

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wherein, *Re*, *Rf* and *Rg* represent each independently an alkyl group, alkoxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkoxy group, arylalkylthio group, arylalkenyl group, arylalkynyl group, amino group, substituted amino group, silyl group, substituted silyl group, silyloxy group, substituted silyloxy group, monovalent heterocyclic group or halogen atom.)—.

7. (original) The organic electroluminescence device according to Claim 6 wherein, in the formula (3), *Re* and *Rf* represent each independently an alkyl group having 3 or less carbon atoms, alkoxy group having 3 or less carbon atoms or alkylthio group having 3 or less carbon atoms and *Rg* represents an alkyl group having 3 to 20 carbon atoms, alkoxy group having 3 to 20 carbon atoms or alkylthio group having 3 to 20 carbon atoms.

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8. (currently amended) The organic electroluminescence device according to ~~any of Claims 1 to 7~~ Claim 1 or 2 wherein the polymer compound comprises a repeating unit of the following formula (4), (5), (6) or (7) in addition to a repeating unit of the formula (1):

-Ar₁₂- (4)

-Ar₁₂-X₁- (Ar₁₃-X₂)_c-Ar₁₄- (5)

-Ar₁₂-X₂- (6)

-X₂- (7)

{wherein, Ar₁₂, Ar₁₃ and Ar₁₄ represent each independently an arylene group, divalent heterocyclic group or divalent group having a metal complex structure-, X₁ represents -CR₂=CR₃-, -C≡C- or -(SiR₅R₆)_d-, X₂ represents -CR₂=CR₃-, -C≡C-, -N(R₄)- or -(SiR₅R₆)_d-, R₂ and R₃ represent each independently a hydrogen atom, alkyl group, aryl group, monovalent heterocyclic group, carboxyl group, substituted carboxyl group or cyano group-, R₄, R₅ and R₆ represent each independently a hydrogen atom, alkyl group, aryl group, monovalent heterocyclic group or arylalkyl group-, c represents an integer of 0 to 2-, d represents an integer of 1 to 12-, and when a plurality of Ar₁₃s, R₂s, R₃s, R₅s and R₆s are present, these may be the same or different.}.

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9. (currently amended) The organic electroluminescence device according to ~~any of Claims 1 to 8~~ Claim 1 or 2 wherein the polymer compound comprises at least one polymerizable substituent in the molecule.

10. (currently amended) A sheet light source using the organic electroluminescence device according to ~~any of Claims 1 to 9~~ Claim 1 or 2.

11. (currently amended) A segment display using the organic electroluminescence device according to ~~any of Claims 1 to 9~~ Claim 1 or 2.

12. (currently amended) A dot matrix display using the organic electroluminescence device according to ~~any of Claims 1 to 9~~ Claim 1 or 2 as back light.

13. (currently amended) A liquid crystal display using the organic electroluminescence device according to ~~any of Claims 1 to 9~~ Claim 1 or 2 as back light.